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1634/16
PATENT

Attorney Docket No. FORS-06497

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Raymond F. Cracauer *et al.*

Serial No.: 09/930,688

Filed: 08/15/2001

Entitled: Polymer Synthesizer

Group No.: 1634

Examiner: Bradley L. Sisson

INFORMATION DISCLOSURE
STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV 329 478 679 US, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: June 6, 2003

By: Susan M. McClintock
Susan M. McClintock

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

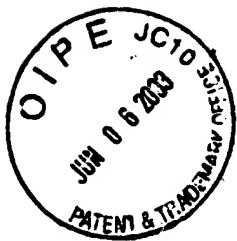
A check for \$180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing this Information Disclosure Statement after three months as set forth in 37 C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated: June 6, 2003

Mary Ann Brow
Mary Ann Brow
Registration No. 42,363

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San Francisco, California 94105
608/218-6900



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INFORMATION DISCLOSURE STATEMENT

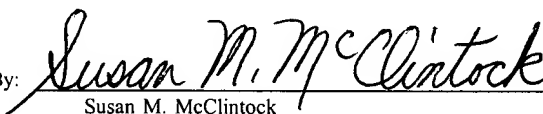
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Susan M. McClintock

Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Patent No. 5,472,672 to Bennan on 12/5/95
- U.S. Patent No. 5,368,823 to McGraw *et al.* on 11/29/94
- U.S. Patent No. 5,935,527 to Andrus *et al.* on 8/10/99
- U.S. Patent No. 5,865,224 to Ally *et al.* on 2/2/99
- WO99/65602

The following references were identified in a search provided by World Patent Services, Inc., Arlington VA. Primary Examiner Jill Warden was consulted by Rick Jordan of WPS for Class verification and suggested Class 422, subclasses 63, 64, 65, 67, 81, 100, 102, 104, 129, 130, 131, 134, 188 and 189. Computer searching using the EAST system was also conducted to include the EPO and JPO collection.

- U.S. Patent No. 6,280,950 ;
- U.S. Patent No. 6,270,730 ;

- U.S. Patent No. 6,264,891 ;
- U.S. Patent No. 6,126,904 ;
- U.S. Patent No. 6,171,555;
- U.S. Patent No. 6,150,102;
- U.S. Patent No. 6,096,276;
- U.S. Patent No. 6,045,755;
- U.S. Patent No. 5,792,430;
- U.S. Patent No. 5,770,157;
- U.S. Patent No. 5,580,523;
- U.S. Patent No. 5,443,791;
- U.S. Patent Publication No. 2001/0022950;
- U.S. Patent Publication No. 2001/0007644;
- U.S. Patent Publication No. 2001/0001035; and
- U.S. Patent Publication No. 2001/0000723.

Applicants have become aware of the following printed publications which may be material to the examination of this application:

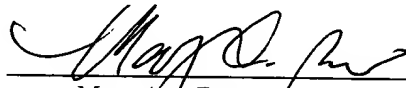
- U.S. Patent No. 3,917,455;
- U.S. Patent No. 4,353,989;
- U.S. Patent No. 4,483,964;
- U.S. Patent No. 4,517,338;
- U.S. Patent No. 4,598,045;
- U.S. Patent No. 4,598,049;
- U.S. Patent No. 4,744,037;
- U.S. Patent No. 4,837,159;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 5,112,575;
- U.S. Patent No. 5,262,530;
- U.S. Patent No. 5,298,259;
- U.S. Patent No. 5,437,979;
- U.S. Patent No. 5,462,748;
- U.S. Patent No. 5,466,608;
- U.S. Patent No. 5,503,805;
- U.S. Patent No. 5,762,881;
- U.S. Patent No. 5,789,162;
- U.S. Patent No. 5,874,554;

- U.S. Patent No. 5,885,837;
- U.S. Patent No. 5,981,733;
- U.S. Patent No. 6,057,424;
- U.S. Patent No. 6,165,717;
- U.S. Patent No. 6,175,006;
- U.S. Patent No. 6,177,554;
- U.S. Patent No. 6,225,061;
- U.S. Patent No. 6,329,210;
- U.S. Patent No. 4,401,796;
- U.S. Patent No. 4,689,405;
- U.S. Patent No. 4,734,363;
- U.S. Patent No. 4,950,745;
- U.S. Patent No. 5,047,524;
- U.S. Patent No. 5,112,962;
- U.S. Patent No. 5,132,418;
- U.S. Patent No. 5,149,798;
- U.S. Patent No. 5,264,562;
- U.S. Patent No. 5,264,566;
- U.S. Patent No. 5,324,831;
- U.S. Patent No. 5,514,789;
- U.S. Patent No. 5,518,651;
- U.S. Patent No. 5,548,076;
- U.S. Patent No. 5,616,700;
- U.S. Patent No. 5,620,852;
- U.S. Patent No. 5,639,873;
- U.S. Patent No. 5,646,267;
- U.S. Patent No. 5,652,358;
- U.S. Patent No. 5,668,266;
- U.S. Patent No. 5,668,268;
- U.S. Patent No. 5,700,919;
- U.S. Patent No. 5,703,218;
- U.S. Patent No. 5,703,223;
- U.S. Patent No. 5,723,599;
- U.S. Patent No. 5,726,300;
- U.S. Patent No. 5,736,626;
- U.S. Patent No. 5,789,162;

- U.S. Patent No. 5,821,058;
- U.S. Patent No. 5,840,841;
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- U.S. Patent No. 5,053,454
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- WO98/39099
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- User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: June 6, 2003



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Registration No. 42,363

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FORM PTO-1449
(Modified)U.S. Department of Commerce
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Attorney Docket No.: FORS-06497

Serial No.: 09/930,688

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)Applicant: Raymond F. Cracauer *et al.*

(37 CFR § 1.98(b))

Filing Date: 08/15/02

Group Art Unit: 1634

U.S. PATENT DOCUMENTS

| Examiner Initials | Cite No. | Serial / Patent Number | Issue Date | Applicant / Patentee | Class | Subclass | Filing Date |
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| | 1 | 5,472,672 | 12/5/95 | Bennan | 422 | 131 | 10/22/93 |
| | 2 | 5,368,823 | 11/29/94 | McGraw <i>et al.</i> | 422 | 1340 | 2/11/93 |
| | 3 | 5,935,527 | 8/10/99 | Andrus <i>et al.</i> | 422 | 131 | 4/29/93 |
| | 4 | 5,865,224 | 2/2/99 | Ally <i>et al.</i> | 141 | 130 | 12/20/96 |
| | 5 | 6,280,950 | 8/28/01 | Lipshutz <i>et al.</i> | 435 | 6 | 10/28/99 |
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| | 7 | 6,264,891 | 7/24/01 | Heyneker <i>et al.</i> | 422 | 64 | 5/18/99 |
| | 8 | 6,126,904 | 10/3/00 | Zuellig <i>et al.</i> | 422 | 130 | 9/5/97 |
| | 9 | 6,171,555 | 1/9/01 | Cargill <i>et al.</i> | 422 | 104 | 3/6/98 |
| | 10 | 6,150,102 | 11/21/00 | Mills, Jr. <i>et al.</i> | 435 | 6 | 5/15/98 |
| | 11 | 6,096,276 | 8/1/00 | Laursen | 422 | 103 | 8/14/91 |
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| | 17 | 6,329,210 | 12/11/01 | Schleifer | 436 | 518 | 10/29/99 |
| | 18 | 6,175,006 | 1/16/01 | Andrus <i>et al.</i> | 536 | 25.4 | 3/30/99 |
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| | 20 | 5,981,733 | 11/9/99 | Gamble <i>et al.</i> | 536 | 25.3 | 9/16/96 |
| | 21 | 5,885,837 | 3/23/99 | Winkler <i>et al.</i> | 435 | 91.1 | 10/23/96 |
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| | 27 | 5,262,530 | 11/16/93 | Andrus <i>et al.</i> | 536 | 25.31 | 7/27/90 |
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| | 30 | 5,112,575 | 5/12/91 | Whitehouse <i>et al.</i> | 422 | 116 | 2/14/91 |
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| | 33 | 4,598,049 | 7/1/86 | Zelinka <i>et al.</i> | 435 | 287 | 8/31/83 |

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: FORS-06497

Serial No.: 09/771,332

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Serials Only If Necessary)

Applicant: Raymond F. Cracauer

(37 CFR § 1.98(b))

Filing Date: 08/15/01

Group Art Unit: 1634

U.S. PATENT DOCUMENTS

| Examiner Initials | Cite No. | Serial / Patent Number | Issue Date | Applicant / Patentee | Class | Subclass | Filing Date |
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| | 34 | 4,517,338 | 5/14/85 | Urdea <i>et al.</i> | 525 | 54.11 | 7/13/84 |
| * | 35 | 4,483,964 | 11/20/84 | Urdea <i>et al.</i> | 525 | 54.11 | 6/20/83 |
| | 36 | 4,458,066 | 7/3/84 | Caruthers <i>et al.</i> | 536 | 27 | 3/24/81 |
| * | 37 | 4,353,989 | 10/12/82 | Bender <i>et al.</i> | 435 | 287 | 1/19/81 |
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| | 39 | 5,736,626 | 4/7/98 | Mullah <i>et al.</i> | 536 | 25.3 | 1/29/96 |
| | 40 | 5,723,599 | 3/3/98 | Klem <i>etal.</i> | 536 | 25.3 | 3/22/95 |
| | 41 | 5,703,218 | 12/30/97 | Urdea <i>et al.</i> | 536 | 23.1 | 4/13/95 |
| | 42 | 5,668,268 | 9/16/97 | Tang <i>et al.</i> | 536 | 25.3 | 11/27/95 |
| | 43 | 5,652,358 | 7/29/97 | Pfleiderer <i>et al.</i> | 536 | 25.3 | 11/3/94 |
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| | 49 | 6,225,061 B1 | 5/1/01 | Becker <i>et al.</i> | 435 | 6 | 3/10/99 |
| | 50 | 6,165,717 | 12/26/00 | Dower <i>et al.</i> | 435 | 6 | 5/13/98 |
| | 51 | 5,874,554 | 2/23/99 | Gamble <i>et al.</i> | 536 | 22.1 | 12/13/96 |
| | 52 | 5,789,162 | 8/4/98 | Dower <i>et al.</i> | 435 | 6 | 6/7/95 |
| | 53 | 5,726,300 | 3/10/98 | Klem <i>et al.</i> | 536 | 25.34 | 6/15/94 |
| | 54 | 5,703,223 | 12/30/97 | Wickstrom <i>et al.</i> | 536 | 25.33 | 9/2/94 |
| | 55 | 5,700,919 | 12/23/97 | Seliger <i>et al.</i> | 536 | 22.1 | 1/10/95 |
| | 56 | 5,668,266 | 9/16/97 | Ruth | 536 | 25.3 | 5/12/95 |
| | 57 | 5,646,267 | 7/8/97 | Stec <i>et al.</i> | 536 | 25.33 | 6/5/95 |
| | 58 | 5,620,852 | 4/15/97 | Lin <i>et al.</i> | 435 | 6 | 10/31/94 |
| | 59 | 5,616,700 | 4/1/97 | Reddy <i>et al.</i> | 536 | 25.3 | 11/18/93 |
| | 60 | 5,548,076 | 8/20/96 | Froehler <i>et al.</i> | 536 | 25.34 | 8/13/93 |
| | 61 | 5,514,789 | 5/7/96 | Kempe | 536 | 25.4 | 4/21/94 |
| | 62 | 5,324,831 | 6/28/94 | Marquez <i>et al.</i> | 536 | 25.3 | 4/6/88 |
| | 63 | 5,264,566 | 11/23/93 | Froehler <i>et al.</i> | 536 | 25.34 | 4/26/90 |
| | 64 | 5,149,798; | 9/22/92 | Agrawal <i>et al.</i> | 536 | 27 | 4/6/89 |
| | 65 | 5,112,962 | 5/12/91 | Letsinger <i>et al.</i> | 536 | 27 | 11/9/90 |

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Date Considered:

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(37 CFR § 1.98(b))

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|-------------------|----------|------------------------|------------|--------------------------|-------|----------|-------------|
| | 66 | 4,734,363 | 3/29/88 | Dattagupta <i>et al.</i> | 435 | 91 | 11/27/984 |
| * | 67 | 4,689,405 | 8/25/98 | Frank <i>et al.</i> | 536 | 27 | 1/4/84 |
| | 68 | 4,401,796 | 8/30/83 | Itakura | 535 | 340 | 4/30/81 |
| * | 69 | 3,917,455 | 11/4/75 | Bak <i>et al.</i> | 23 | 253 | 5/10/74 |
| | 70 | 4,837,159 | 6/6/89 | Yamada | 436 | 45 | 9/17/85 |
| | 71 | 5,503,805 | 4/2/96 | Sugarman <i>et al.</i> | 422 | 131 | 11/2/93 |
| | 72 | 5,437,979 | 8/1/95 | Rampal <i>et al.</i> | 435 | 6 | 8/24/92 |
| | 73 | 5,762,881 | 6/9/98 | Harness <i>et al.</i> | 422 | 132 | 10/29/96 |
| | 74 | 4,598,045 | 7/1/86 | Masover <i>et al.</i> | 435 | 34 | 2/19/85 |
| | 75 | 5,053,454 | 10/1/91 | Judd | 525 | 54.11 | 2/15/89 |

U.S. PATENT APPLICATION PUBLICATION

| Examiner Initials | Cite No. | Publication Number | Publication Date | Applicant / Patentee | Class | Subclass | Filing Date |
|-------------------|----------|--------------------|------------------|----------------------|-------|----------|-------------|
| | 76 | 2001/0022950 | 9/20/01 | Hall <i>et al.</i> | 422 | 131 | 5/18/01 |
| | 77 | 2001/0007644 | 7/12/01 | McLuen <i>et al.</i> | 422 | 131 | 12/19/00 |
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

| | | Document Number | Publication Date | Country / Patent Office | Class | Subclass | Translation | |
|---|----|-----------------|------------------|-------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | 80 | WO99/65602 | 23 Dec. 99 | | | | | |
| | 81 | WO 00/56445 | 28 Sept. 00 | | | | | |
| | 82 | WO 91/13084 | 5 Sept. 91 | | | | | |
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| | |
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| 87 | User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001) |
|----|---|

Examiner:

Date Considered:

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Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.